Burrville Road Bridge Spanning Toti Creek at Burrville Road Recovery Township Mercer County Ohio HAER No. OH-35

HUYER OHIO SU-FORE.V

PHOTOGRAPHS

WRITTEN HISTORICAL AND DESCRIPTIVE DATA

HISTORIC AMERICAN ENGINEERING RECORD
MID-ATLANTIC REGION NATIONAL PARK SERVICE
DEPARTMENT OF THE INTERIOR
PHILADELPHIA, PENNSYLVANIA 19106

HISTORIC AMERICAN ENGINEERING RECORD

BURRVILLE ROAD BRIDGE

HAER No. OH-35

Location:

Spanning a branch of Toti Creek at Burrville Road (Township Route 33), 6.5 miles northeast of Fort Recovery, in Recovery Township, Mercer County, Ohio

UTM: 4.481.387 N., 692.706E

Quad: Coldwater, Ohio

Date of Construction:

1887. Repaired in1910 and 1951

Present Owner:

Mercer County

Mercer County Courthouse

Celina, Ohio 45822

Present Use:

Vehicular and pedestrian bridge

Significance:

The Burrville Road Bridge is one of seven selected Truss Leg Bedstead bridges in Ohio. It was fabricated

and erected by the Bellefontaine Bridge and Iron Company of Bellefontaine, Ohio, a prolific builder of

bridges throughout the region (ODOT, 1983).

Project Information:

The Burrville Road Bridge will be moved to private property and replaced by Mercer County using Community

Development Block Grant Funds. Mitigative

documentation prepared by Warren C. High of Woolpert

Consultants, Dayton, Ohio, June 1985

Transmitted by:

Jean P. Yearby, HAER, 1985

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The Burrville Road Bridge is located approximately 6.5 miles from historic Fort Recovery, in a rural setting in Mercer County, Ohio. The county proposes to move this bridge to private property for use near its original setting.

Prior to the fabrication and erection of this structure in 1887, it is unknown whether a wooden structure or ford was used to cross this branch of Toti Creek. An extensive search of county and historic society records has not provided any records as to the original cost, nor prior photographic documentation of the bridge. County records did reveal that the abutments were reinforced with concrete in 1910 and 1951. In addition, structural repairs to the Uo connections and the replacement of the bottom chord (LoLi) were performed in 1951.

The Burrville Road Bridge is a Truss Leg Bedstead style Pony Truss which spans 30 feet, is 16 feet, 10 inches wide and is comprised of three panels. The bridge is fabricated from wrought iron and steel. The end posts and top chord are comprised of channels with riveted plates which act in compression Also, the endposts continue into the soil and act as piling to support the truss. The lower chord is comprised of angles and eye bars, the diagonals are eye bars and rods with turnbuckles, and the interior posts are channels and plats, all acting as tension members. All members are joined together by pins. The deck consists of a timber strip floor with an asphalt wearing surface and is supported by "1" beam joists and "I" beams. A lattice barrier extends the length of the bridge.

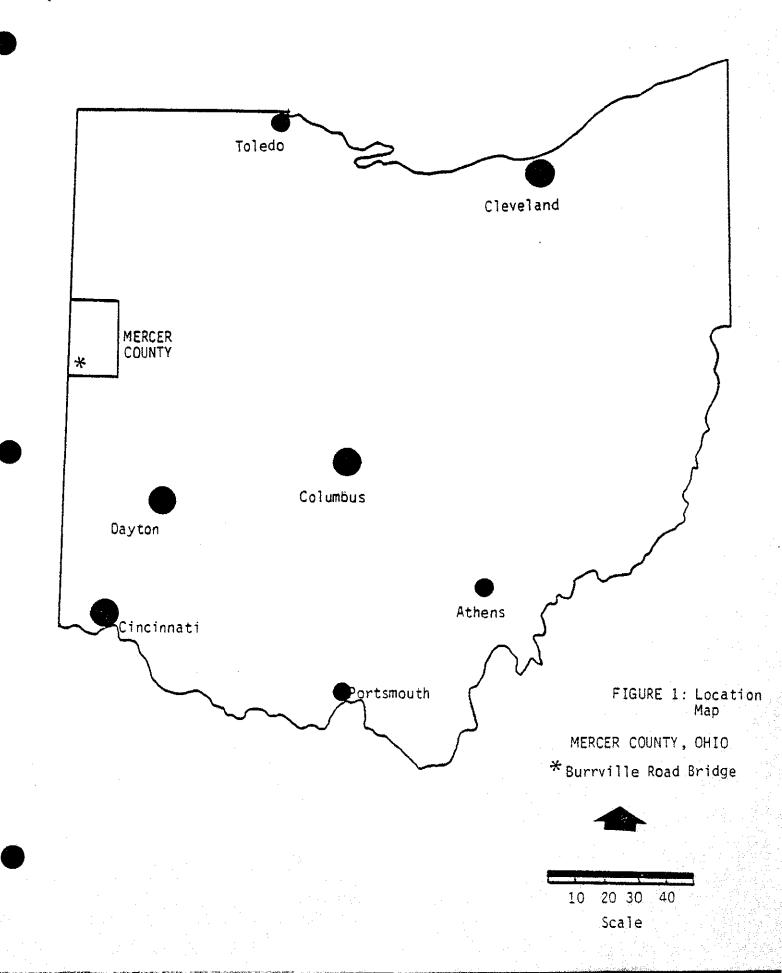
The Burrville Road Bridge was fabricated and built in 1887 by the Bellefountaine Bridge and Iron Company of Bellefountaine, Logan County, Ohio. This company began originally as the Buchanan Bridge Company which became incorporated in 1890. The name of this company was changed to the Bellefountaine Bridge and Iron Company in 1894. S. A. Buchanan began the company and specialized in patent wooden trusses and combination bridges (Lathrop, 1890). The offices were located on the second floor, Opera Block, Court Street Front (Lathrop, 1890).

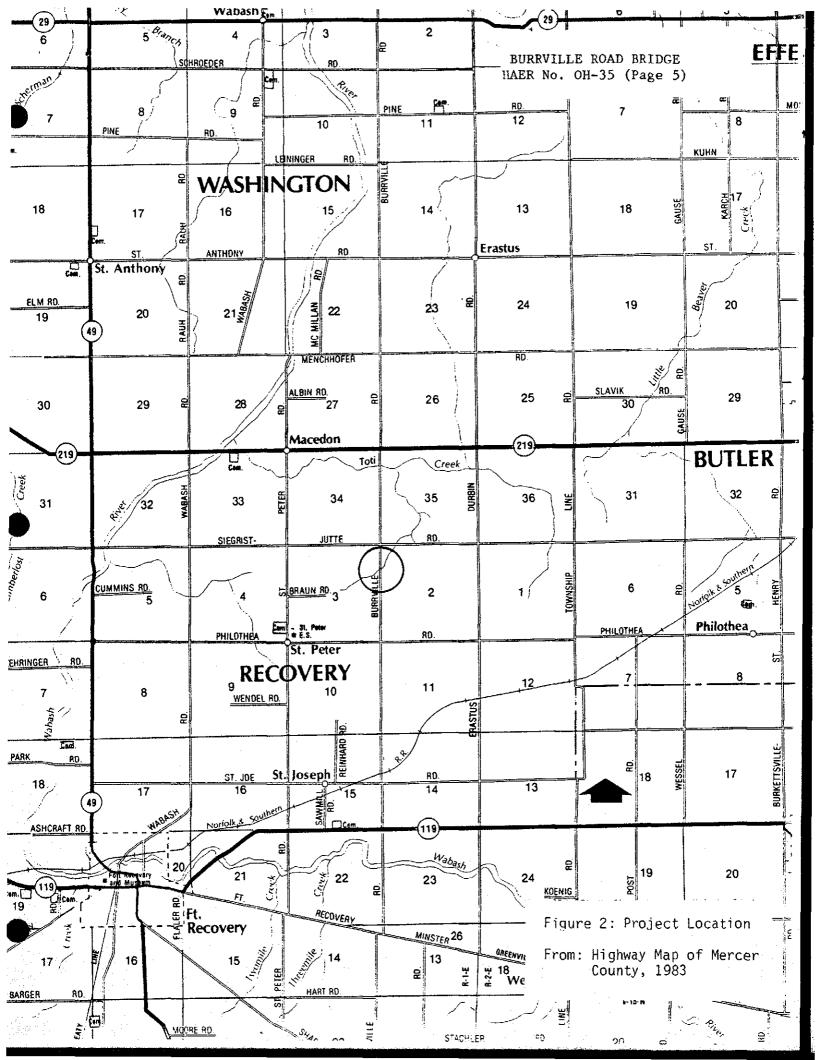
Later documentation of the Bellefountaine Bridge and Iron Company shows the following people managed the company in 1902: T. F. Bushey, President and General Manager; Robert Colton, Vice President; P. E. Cory, Secretary and Treasurer; J. E. Miller, Engineer; and F. W. Fahlgren, Superintendent. It is unknown which personnel were involved with bridge design during the time of the Burrville Bridge.

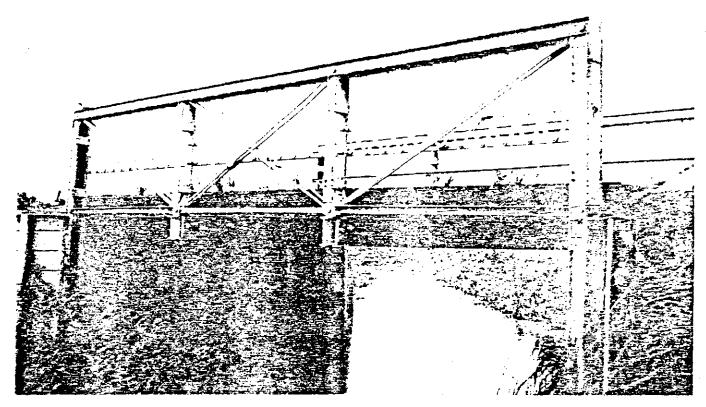
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REFERENCES

- Lathrop, J. M., 1890. Atlas of Logan County, Ohio. O. J. Laked and Company. Philadelphia.
- Ohio Department of Transportation. 1983. The Ohio Historic Bridge Inventory Evaluation, and Preservation Plan.



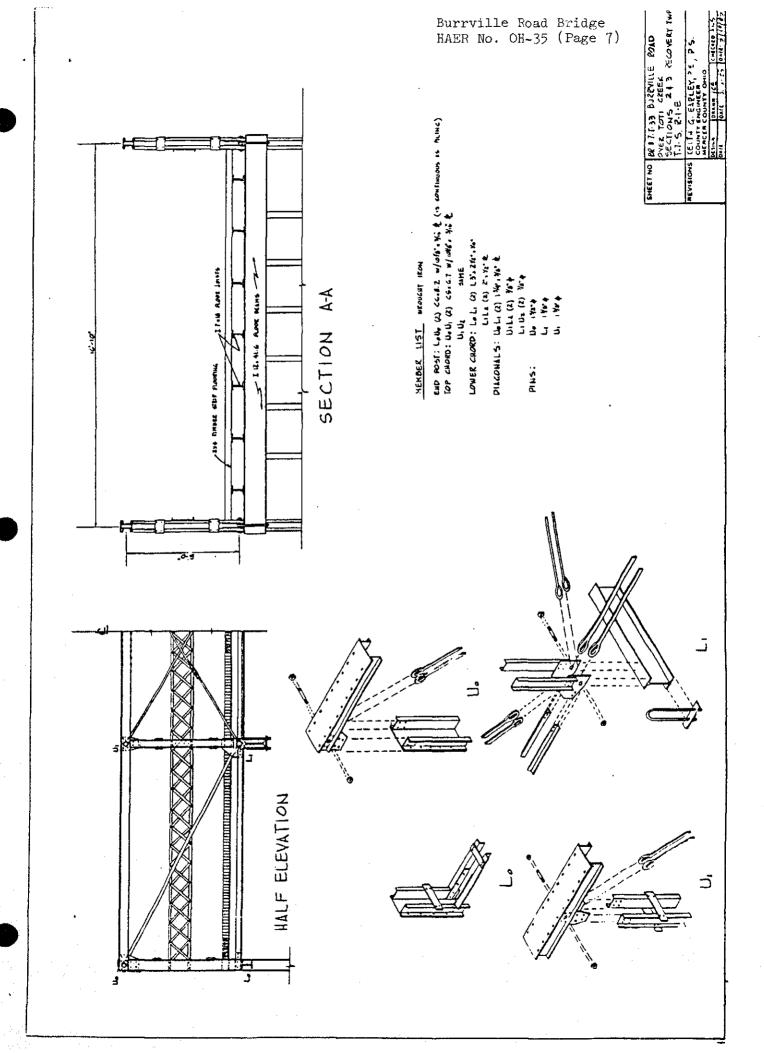


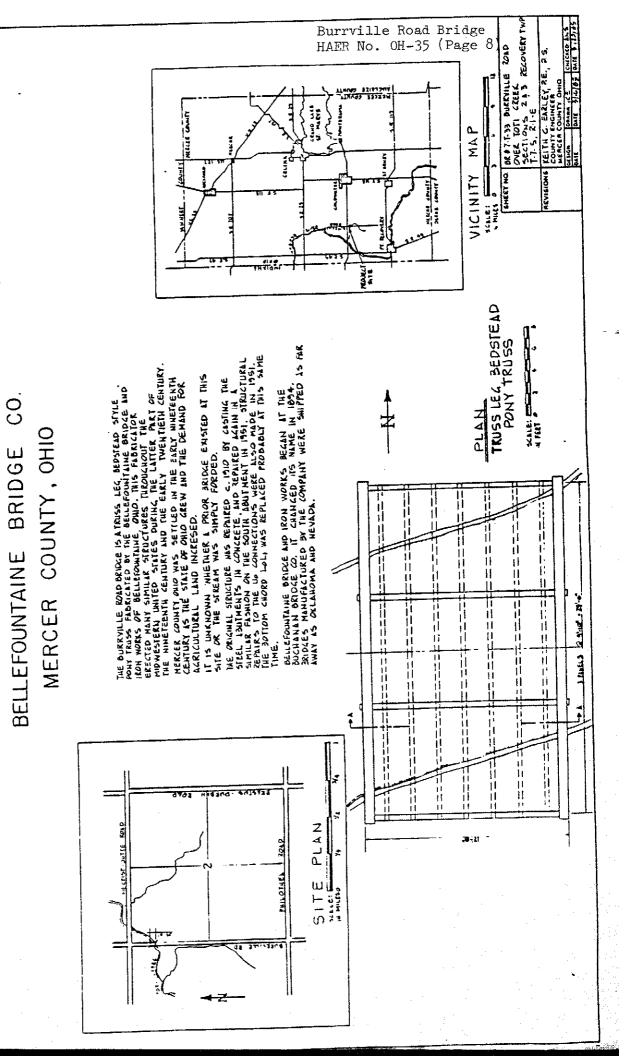


Mercer County
Township Route 33 (Burrville Road)
Crosses branch of Toti Creek
Located 6 miles northeast of Fort Recovery
Recovery Township—Border of Sections 2 and 3
Structure File No. 5451930
UTM Coordinates—17:692706/4481387

This single-soan bridge was built in 1887 by the Bellefontaine Bridge and Iron Works. The truss leg bedstead has an overall length of 31 feet. A criss-cross railing extends the length of the span.

Figure 3. From The Ohio Historic Bridge Inventory Evaluation, and Preservation Plan, ODOT, 1983, Page 60.





BURRVILLE ROAD BRIDGE 1887